VIRUS NAMES

used in the

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Virus Names used in the

Review of Applied Mycology.

The attitude of the Review of Applied Mycology to questions of nomenclature is conservative. In the interests of continuity changes in the scientific names of pathogens are made as infrequently as possible. The fungus names included in the British Mycological Society's List of Common Names of British Plant Diseases are accepted while the names adopted for other fungi are those recognised by responsible pathologists specializing in the particular diseases concerned. During recent months a notable clarification of the confusion in bacterial nomenclature has been effected, after consultation with bacteriologists at home and abroad, by adopting the genera Pseudomonas, Xanthomonas, and Corynebacterium but the nomenclature of viruses remains a problem of great complexity. The Review has consistently refrained from adopting any system for the 'scientific' nomenclature of viruses since no system yet invented has obtained international acceptance. In the past a virus was indexed in the Review either under the English common name of the disease it causes or under some other widely used designation.

The common names for many diseases are accepted throughout the English-speaking world, they are frequently without ambiguity, and they will presumably continue to be used after the viruses have received internationally acceptable scientific names. It was decided, therefore, that, with one or two exceptions, viruses should be indexed in the Review under common names derived from the English common names of the diseases they cause. To this end an effort is being made to standardize disease names and as a preliminary a list of about 120 names was compiled and circulated for comment to a number of virus workers and official plant pathologists whose suggestions have been incorporated in the present expanded but still tentative list, which also includes the important synonyms for each virus.

In the following list the disease names proposed are given in capital letters. For each, reference is made to a description of the disease in K.M. Smith's Textbook of plant virus diseases (1937), F.O. Holmes's Handbook of phytopathogenic viruses (1939), or other work. The first name for the causal virus, which is

usually one formed by adding 'virus' to the common name of the disease, is the name accepted in the Review. Synonyms arranged in chronological order are indented under each name. (It should be noted that no new names have been coined and that the synonymy is based on the published opinions of virus workers, the name of a responsible author being cited in many cases where the synonymy appears to be 'facultative' (see Ainsworth, Ann. appl. Biol., xxx, p. 187, 1943).) It was finally decided to group together under one disease name both the virus type and viruses considered to be variants ('strains or related viruses') of the type. Some virus workers, for example, would consider all the 120 names listed under TOBACCO MOSAIC to be synonyms of 'tobacco mosaic virus'; others would make various sub-groups. In a small number of cases a distinct common name for the disease caused by a 'strain' is felt to be necessary and in such cases a cross reference is given to the causal virus. Thus, TOMATO AUCUBA MOSAIC, caused by a variant of tobacco mosaic virus, is retained. The full citation for a name attributed to an author and date can be obtained by consulting Smith's Textbook, Holmes's Handbook, the bibliographies of Atanasoff (1934, ; xii, 511-584 supplement Phytopath. Z., x, pp. 339-463, 1937) and M.T. Cooke (J. Agric. Puerto Rico, 1934-1938), or the Review of Applied Mycology.

The insertion of 'virus' or an author's name in square brackets indicates that the author used the name but did not recognize the virus nature of the disease. A virus name derived from a disease name is attributed to the author using the disease name and recognizing that a virus was involved whether or not he actually used the common name for the virus. The virus names proposed by Smith in his Textbook are attributed to him and in the author's abbreviations 'K.M.S.' = K.M. Smith in his Textbook and 'H' = Holmes in his Handbook.

This list is, of course, largely book work and suggestions for alternative or additional disease names, corrections to the synonymy, and any other criticisms will be welcomed for it is intended eventually to issue a revised version, in printed form and with adequate indexes, which might perhaps form the basis for an international agreement.

I am already indebted for suggestions, encouragement, and advice to Mr. R.E.D. Baker (Trinidad), Mr. F.C. Bawden (Rothamsted), Dr. C.W. Bennett (Chairman of the Special Committee on Virus Nomenclature and Classification of the American Phytopathological Society), Dr. G.H. Cunningham (New Zealand),

Dr. C.E. Foister (Scotland), Dr. J.C. Hopkins (Southern Rhodesia), Professor J. Johnson (Secretary of the Committee on Description and Nomenclature of Plant Viruses of the International Botanical Congress), Dr. R. McKay (Eire), Mr. A.E. Muskett (Northern Ireland), Dr. G. Watts Padwick (India), Mr. G. Samuel and Mr. W.C. Moore (Ministry of Agriculture, Harpenden), and Dr. K.M. Smith (Cambridge).

S. P. Wiltshire

Director

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ABACA BUNCHY TOP Holmes Hb. 63; Smith Tb. 408

Abaca bunchy top virus Ocfemia 1932
Manila hemp bunchy top virus Ocfemia 1932
Musa virus 2 K.M.S.
Musa virus No. 3 fide H.
Marmor abaca H.

ABUTILON MOSAIC Holmes Hb. 50; Smith Tb. 599

Abutilon mosaic virus H.
Abutilon infectious variegation /virus/ Bauer 1904
Abutilon infectious chlorosis /virus/ Bauer 1906
Abutilon chlorosis A /virus/ Hertsch 1927
?Abutilon chlorosis B /virus/ Hertsch 1927
Abutilon virus 1 K.M.S.
Marmor abutilon H.

ALFALFA, see LUCERNE

ANEMONE ALLOIOPHYLLY Holmes Hb. 108; Smith Tb. 6

Anemone alloiophylly virus Klebahn 1926
Anemone virus 1 K.M.S.
Galla anemones H.

APPLE MOSAIC Holmes Hb. 75; Smith Tb. 150

Apple mosaic virus H.
Apple infectious variegation virus Bradford & Joly 1933
Pyrus virus 2 K.M.S.
Marmor mali H.

ASPARAGUS BEAN MOSAIC Snyder, Phytopathology, xxxii, 518-523,1942

Asparagus bean mosaic virus Snyder 1942

ASTER YELLOWS Holmes Hb. 2 (host list, p. 170); Smith Tb., 214

Aster yellows virus Kunkel 1924, 1936
Lettuce Rio Grande disease /virus/ R.E.Smith 1902 fide Kunkel 1925
Lettuce rabbit-ear virus fide Kunkel 1925
Lettuce white-heart virus fide Kunkel 1926
Salsify yellows virus Haskell & Archer 1929
Erigeron yellows virus McClintock 1931
New York aster yellows virus Kunkel 1932

Abutilon variegatum virus Bawden 1944 ✓ (XXIII 438)

Althaea rosea yellow-vein mosaic India 1945
ALMOND CALICO ✓ Thomas + Rawlins, Hilgardia XII, 1939 623-644

APRICOT RING POX Reeves, Bull Wash Dep. Agric 1 m. 19
Apricot ring pox virus Reeves 1943
cf Apricot ring spot Bodine + Krentzer 1942

BEAN MOSAIC, SOUTHERN — Zaumeyer Harter J. Agric. Res. lxvii, 305–328, 1943

Southern bean mosaic virus Zaumeyer Harter 1943
Sulfur bean mosaic virus 1 " " [1942]
Bean mosaic virus 4 " "
Marmor laesiofaciens Zaumeyer Harter 1944 (R 23467)

Pots Syn
Southern bean mosaic virus 2 "
Bean mosaic virus 4A "

Gelbsucht der Sommerastern virus Richter 1936
Callistephus virus 1 K.M.S.
Chlorogenus callistephi var. vulgaris H. (aster-yellows virus, typical strain)

Strains or related viruses

Aster-yellows virus, heat-attenuated strain H. (Kunkel 1924)
Chlorogenus callistephi var. attenuatus H.

Celery yellows virus Severin 1929
Carrot, parsnip, and parsley yellows virus Severin 1930, 1932
California aster yellows virus Kunkel 1932, Severin 1934
Callistephus virus 1A K.M.S.
Chlorogenus callistephi var. californicus H, (aster-yellows virus, celery-yellows strain)
?Potato purple-top-wilt virus /Brentzel 1938/ fide Younkin 1943

BANANA BUNCHY TOP Smith Tb. 404

Banana bunchy top virus Magee 1927
Plantain bunchy top virus /Bryce 1921/ fide Hutson & Park 1930
Banana virus 1 J. Johnson in Smith 1937 K.M.S.
Musa virus 1 K.M.S.

BEAN LEAF WILT J. Johnson, J. agric. Res., lxiv, 448, 1942

Bean leaf wilt virus J. Johnson 1942

BEAN MOSAIC Holmes Hb. 87; Smith Tb. 156

Bean mosaic virus Stewart & Reddick 1917, Fajardo 1930
Navy bean mosaic virus Barss 1921
?Azuki bean mosaic virus Matsumoto 1922
Common bean-mosaic virus Pierce 1934
Bean virus 1 Pierce 1934
Phaseolus virus 1 K.M.S.
Marmor phaseoli H.

BEAN YELLOW MOSAIC Smith Tb. 161

Bean yellow mosaic virus Pierce 1934
Bean virus 2 Pierce 1934
?Pea virus 2 Zaumeyer & Wade 1935
?White sweet clover virus Zaumeyer & Wade 1935

Phaseolus virus 2 K.M.S.
Bean dwarf mosaic virus Costa & Forster 1941

Strains or related viruses

Alsike mosaic virus 1 Zaumeyer & Wade 1936, Zaumeyer 1940
Trifolium virus 3 Weiss 1939

Alsike clover mosaic virus 2 Zaumeyer 1940
Trifolium virus 3A Weiss 1939

Pea mosaic virus 4 Zaumeyer 1940
Pisum virus 4A Weiss 1939

Pea stunt mosaic virus Zaumeyer 1940
Pea mosaic virus 5 Zaumeyer 1940
Pisum virus 6 Weiss 1939

Pea virus 2 Osborn 1937
Pisum virus 4 Weiss 1939

Sweet pea streak virus Ainsworth 1940

BEAN YELLOW NECROSIS J.Johnson, J.agric.Res., lxiv,449,1942

Bean yellow necrosis virus J.Johnson 1942

BLACKBERRY DWARF, see LOGANBERRY DWARF

CABBAGE RING NECROSIS Larsson & Walker, J.agric.Res.,lxii, 475-491,1941

Cabbage ring necrosis virus Larsson & Walker 1941

CABBAGE RING SPOT Smith Tb.6

Cabbage ring spot virus Smith 1935
Wallflower mosaic virus Smith 1935 fide K.M.S.
?Cabbage blackspot virus Tompkins 1935 fide K.M.S.
Brassica virus 1 K.M.S.
Cabbage black ring virus Tompkins 1938 fide Smith in litt.

Cabbage mosaic virus Larsson & Walker 1939 (in part) fide Smith in litt.

CACAO SWOLLEN SHOOT Posnette,Trop.Agriculture,Trin., xviii, 87-90, 1941

Cacao swollen shoot virus [(W.F.Steven) 1937] Posnette 1940

CASSAVA MOSAIC Holmes Hb.117; Smith Tb.94

Cassava mosaic virus Lefevre 1935, Storey & Nichols 1938
Cassava 'Kräuselkrankheit' [virus] Warburg 1894
Manihot virus 1 K.M.S.
Ruga bemisiae H.
Ochrosticta bemisiae (H.) Mc

CAULIFLOWER MOSAIC Holmes Hb.69; Smith Tb 13

Cauliflower mosaic virus Tompkins 1937
Brassica virus 3 K.M.S.
Marmor cruciferarum H.
Cabbage mosaic virus Larsen & Walker 1939 (in part) fide Smith in litt.
Broccoli mosaic virus Caldwell & Prentice 1942

CELERY MOSAIC Holmes Hb.67; Smith Tb.204

Celery mosaic virus Holmes 1939
Celery western mosaic virus Severin & Freitag 1935, 1938
Apium virus 1 K.M.S.
Marmor umbelliferarum H.
celery crinkle-leaf mosaic

CELERY SOUTHERN MOSAIC

Celery southern mosaic virus, see under Cucumber mosaic virus

CELERY YELLOWS

Celery yellows virus, see under Aster yellows virus
Celery Calico = Cucumber Calico (Cucumber mosaic

CHERRY BANDED CHLOROSIS Zeller & Milbrath, Phytopathology, xxxii, 634-635, 1942
Cherry banded chlorosis virus Zeller & Milbrath 1942
Marmor palidolimbatus Zeller & Milbrath 1942
Prunus virus 10 Zeller & Milbrath 1942

CHERRY MOTTLE LEAF Zeller & Evans, Phytopathology, xxxi, 463-467, 1941
Cherry mottle leaf virus Zeller 1934, Reeves 1941
Prunus virus 7 Zeller & Evans 1941
Marmor cerasae Zeller & Evans 1941

CHERRY ROUGH BARK Milbrath & Zeller, Phytopathology, xxxii, 428-430, 1942
Cherry rough bark virus Milbrath & Zeller 1942
Prunus virus 9 Milbrath & Zeller 1942
Rimocortius kwanzani Milbrath & Zeller 1942

CHERRY VEIN-CLEARING Zeller & Evans, Phytopathology, xxxi,463-467, 1941

Cherry vein clearing virus Zeller & Evans 1941
Prunus virus 8 Zeller & Evans 1941
Marmor nerviclarens Zeller & Evans 1941

CHERRY YELLOWS Keitt & Clayton, Phytopathology,xxxiii,449-468, 1943

Cherry yellows virus Hildebrand 1942, Keitt & Clayton 1943
[see Keitt & Clayton for possible synonyms]

CITRUS INFECTIOUS MOTTLING Fawcett, Citrus diseases and their control (Ed.2),356,1936; Phytopathology xxxi, 356, 1941

Citrus infectious mottling virus Fawcett 1936
Citrus infectious variegation virus Petri 1931, Fawcett & Klotz 1939
Citrivir italicum Fawcett 1941

CITRUS PSOROSIS Fawcett, Citrus diseases and their control (Ed.2), 188, 1936

Citrus psorosis virus [Swingle & Weber 1896] Fawcett 1934
Citrivir psorosis Fawcett 1941 and its vars. vulgare (psorosis A) and annulatum (psorosis B)
?Citrus concave gum disease virus Fawcett 1941
?Citrus blind pocket virus Fawcett 1941

CLOVER VEIN MOSAIC Holmes Hb.93

Clover vein mosaic virus
Red clover vein mosaic virus Osborn 1937
Marmor trifolii H.
Trifolium virus 2 Weiss 1939
?Pea-streak virus 1 Zaumeyer & Wade 1937

CORN, see MAIZE

COTTON LEAF CURL Holmes Hb.116; Smith Tb.90

Cotton leaf curl virus Bailey 1934, Kirkpatrick 1931
Cotton leaf-crinkle virus Kirkpatrick 1930
Gossypium virus 1 K.M.S.
Ruga gossypii H.

CRANBERRY FALSE BLOSSOM Holmes Hb.10; Smith Tb.205

Cranberry false blossom virus [Shear 1919] Dobroscky 1929,1931
Wisconsin false-blossom [virus] fide Dobroscky
Vaccinium virus 1 K.M.S.
Chlorogenus vaccinii H.

CUCUMBER MOSAIC Holmes Hb.31-40 (excluding var. upsilon); Smith Tb.52

Cucumber mosaic virus Selby 1910; Doolittle 1916, 1920
Calico or mosaic of cucumber and melon [virus] Stone 1910
Cucumber wart disease [virus] Ruggles & Stakman 1911
Cucumber white pickle mosaic virus Gilbert 1916
Spinach blight virus McClintock 1918, I.F. Storey 1939 fide K.M.S.
Spinach mosaic virus L.B. Smith 1920
Cucumber virus 1 J.Johnson 1927
Tobacco puff virus Valleau & Johnson 1928 fide Johnson 1930
Tomato fern leaf virus (in part) fide Mogendorff 1930
Cucumber mosaic virus type 1 E.M. Johnson 1930
White pickle virus Porter 1931
Cucumber yellow mosaic virus Ainsworth 1934
Tomato narrow leaf virus Chamberlain 1934
Cucumber yellow-mottle mosaic virus Ainsworth 1935
Ordinary cucumber mosaic virus Hoggan 1935
Lupinbräune virus Köhler 1935
Cucumis virus 1 K.M.S.
Marmor cucumeris var. vulgare H. (cucumber-mosaic virus, typical strain)
Abaca mosaic virus Calinisan 1939, Celino 1940
Murialba cucumeris (H.) Valleau 1940
Cucumber mosaic virus, strain 1 Phillips 1942

Strains or related viruses

?Abaca mosaic virus Calinisan 1931, 1934 fide Magee 1940

Banana heart rot and infectious chlorosis virus Magee 1930, Wardlaw & McGuire 1933
Banana mosaic virus Ogilvie 1927 fide Wardlaw 1935
Banana virus 2 J.Johnson in K.M.S.
Musa virus 2 K.M.S.

Bettendorf mosaic virus Porter 1930
Cucumber virus 2 Porter 1931

?Cucumber mild mosaic virus Hoggan 1935 fide Hoggan 1935
Cucumis virus 1D K.M.S.

Cantaloupe mosaic virus Middleton & Whitaker 1942

Celery southern mosaic virus Wellman 1935
Celery mosaic virus Poole 1921, Doolittle 1931
Celery virus 1 Wellman 1935
Marmor cucumeris var. commelinae H. (cucumber-mosaic virus, southern celery-mosaic strain)

Commelina mosaic virus Kunkel 1921, Carter 1937

Commelina mosaic virus, yellow and green strains Price 1941

Cowpea mosaic virus Gardner 1927, McLean 1941
?Cucumber mosaic virus, strain Y Price 1934 fide McLean 1941
Cucumis virus 1C K.M.S.
Marmor cucumeris var. vignae H. (cucumber-mosaic virus, cowpea-mottling strain)

Cucumber mosaic virus, strains 1, 2, 3, 4 Price 1934

Cucumber mosaic virus, strain 2 Phillips 1942

Cucumber mosaic virus, strain 5 (yellow cucumber mosaic virus) Price 1934
Cucumis virus 1A K.M.S.

Cucumber mosaic virus, strain 6 Price 1934
Cucumeris virus 1B K.M.S.
Marmor cucumeris var. judicis H. (cucumber-mosaic virus, indicator strain)

Cucumber mosaic virus, strain 9 Price 1935

Cucumber mosaic virus, tulip strain Ainsworth 1938

Cucumber mosaic virus, type 2 E.M. Johnson 1930
?Yellow cucumber mosaic virus Hoggan 1935 fide Hoggan 1935

Cucumber mosaic virus, type 3 E.M. Johnson 1930
Cucumber mosaic virus, strain 3 Phillips 1942 fide Phillips 1942

Cucurbit yellow mosaic virus McKinney 1929
Yellow cucumber mosaic virus Hoggan 1935

Delphinium ring spot virus Severin & Dickson 1942

Delphinium stunt disease virus Burnett 1934 fide Valleau 1940

Delphinium witch's broom disease virus
Delphinium virus 1 K.M.S.

Delphinium virus Valleau 1932 fide Valleau 1940
Delphinium virus 2 K.M.S.

Hycacinth virus Ainsworth 1938

Lily mosaic virus Price 1937, Kawamura 1938, Ainsworth 1938

Lily virus, cucumber mosaic strain Brierley 1939
Marmor cucumeris var. lilii H. (cucumber-mosaic virus, lily-mosaic strain)

Lima bean mosaic virus Harter 1936
Marmor cucumeris var. phaseoli H. (cucumber-mosaic virus lima-bean mosaic strain)

Nicotiana viscosa mosaic virus Allard 1916

Primula obconica virus K.M.Smith 1935

Tobacco bleaching mosaic virus J.Johnson 1927 fide Valleau 1940

Tobacco virus 8 J.Johnson 1927
Nicotiana virus 4 K.M.S.

Tobacco crinkle mosaic

Tobacco mild mosaic virus J.Johnson 1927 fide Valleau 1940
Tobacco virus 3 J.Johnson 1927
Nicotiana virus 3 K.M.S.

Tobacco net mosaic and spot mosaic

CUCUMBER GREEN-MOTTLE MOSAIC Holmes Hb.27; Smith Tb.83

Cucumber green-mottle mosaic virus Ainsworth 1935
Cucumber mild or ordinary mosaic virus Bewley 1923
Cucumber virus 3 Ainsworth 1035
Cucumis virus 2 K.M.S.
Marmor astrictum var. chlorogenum H. (cucurbit-mosaic virus, green-mottling strain)
Musipum astrictum Valleau 1940

Strain or related virus

Cucumber yellow mosaic virus Ainsworth 1935
Cucumber aucuba mosaic virus Bewley 1923
Cucumber virus 4 Ainsworth 1935

Cucumis virus 2A K.M.S.
Marmor astrictum var. aucuba H. (cucurbit mosaic virus, aucuba-mosaic strain)

CUCUMBER YELLOW MOSAIC

Cucumber yellow mosaic virus, see under Cucumber green-mottle mosaic virus

CUCUMBER-REVERSION Holmes Hb. 112; Smith Tb. 97

Currant reversion virus [Lees 1920, Amos & Hatton 1926] Amos et al. 1928
Ribes virus 1 K.M.S.
Acrogenus ribis H. (black-currant reversion-disease virus)

DAHLIA MOSAIC Holmes Hb. 85; Smith Tb. 208

Dahlia mosaic virus Brierley 1933
Dahlia yellows and mosaic [viruses] Howe 1922 fide K.M.S.
Dahlia stunt or dwarf [virus] Howe 1923 fide K.M.S.
Dahlia runting [virus] Conners 1926 fide K.M.S.
Dahlia leaf curl and rosette [virus] Martin 1929 fide K.M.S.
Dahlia virus 1 K.M.S.
Marmor dahliae H.

DAHLIA OAK LEAF Smith Tb. 214

Dahlia oakleaf virus Brierley 1933
Dahlia virus 3 K.M.S.

DAHLIA RING SPOT Smith Tb. 213

Dahlia ringspot virus Brierley 1933
Dahlia virus 2 K.M.S.

Strain or related virus

Dahlia yellow ringspot virus Brierley 1933
Dahlia virus 2B J. Johnson in K.M.S.
Dahlia virus 2A K.M.S.

DOCK MOSAIC Smith Tb. 598

Dock mosaic virus Grainger 1928
Rumex virus 1 K.M.S.

EUONYMUS MOSAIC Holmes Hb. 51

Euonymus mosaic virus H.
Euonymus infectious chlorosis /virus/ Baur 1908
Marmor euonymi H.

FIG MOSAIC Smith Tb. 192

Fig mosaic virus Condit & Horne 1933
Ficus virus 1 K.M.S.
Ficivir caricae Condit & Horne 1941

GROUNDNUT ROSETTE Holmes Hb. 67; Smith Tb. 185

Groundnut rosette virus Storey & Bottomley 1928
Groundnut Krauselkrankheit /virus/ Zimmerman 1907
Groundnut Krulziekte /virus/ Schwarz 1927
Groundnut lèpre (gana) /virus/ fide Trochain 1931
Arachis virus 1 K.M.S.
Marmor arachidis H. (peanut-rosette virus)

Strains or related viruses

Chlorosis rosette, green rosette, and type no. 3 viruses Hayes 1932

HENBANE /MOSAIC/ Smith Tb. 331

Hy. III virus Hamilton 1932
Hyoscyamus virus 1 K.M.S.

HOLODISCUS WITCHES' BROOM Holmes Hb. 127; Smith Tb. 127

Holodiscus witches' broom virus
Ocean spray witches' broom virus Zeller 1931
Holodiscus virus 1 K.M.S.
Nanus holodisci H.

HOP CHLOROTIC DISEASE Smith Tb. 194

Hop chlorotic disease virus Salmon & Ware 1930
Humulus virus 3 K.M.S.

HOP MOSAIC Smith Tb. 193

Hop mosaic virus Salmon 1923
Hop false nettlehead virus Duffield 1925 fide K.M.S.
Humulus virus 1 K.M.S.

Strain or related virus

Hop (fuggles) mosaic virus
Fuggles hop mosaic disease virus Salmon & Ware 1936
Humulus virus 4 K.M.S.
Chlorogonus humuli H.

HOP NETTLEHEAD — Holmes Hb. 15; Smith Tb. 194

Hop nettlehead virus Duffield 1925
Silly-hill virus fide H.
'Eelworm' disease [virus] fide K.M.S.
Hop infectious sterility virus Blattný 1935 fide H.
Humulus virus 1 K.M.S.
? Hop Krauselkrankheit or curl disease [virus] fide K.M.S.

IRIS MOSAIC — Holmes Hb. 55; Smith Tb. 420

Iris mosaic virus Brierley & McWhorter 1936
Iris stripe virus Brierley & McWhorter 1934
Iris virus 1 K.M.S.
Marmor iridis H.

LABURNUM MOSAIC — Holmes Hb. 51; Smith Tb. 555

Laburnum mosaic virus H.
Laburnum infectious chlorosis [virus] Baur 1907
Marmor laburni H.

LETTUCE MOSAIC — Holmes Hb. 84

Lettuce mosaic virus Jagger 1921, Ainsworth & Ogilvie 1939
Lactuca virus 1 K.M.S.
Marmor lactucae H.

LILY ROSETTE — Smith Tb. 415

Lily rosette virus Ogilvie 1928
Lily yellow-flat virus Ogilvie 1928
Lilium virus 1 K.M.S.

LOGANBERRY DWARF — Holmes Hb. 124; Smith Tb. 124

Loganberry dwarf virus Zeller 1925, 1927
Blackberry dwarf virus Zeller 1927
Dewberry dwarf virus Zeller 1927

Raspberry virus 2D J.Johnson in K.M.S.
Rubus virus 5 K.M.S.
Nanus loganobacci H.

LUCERNE DWARF Smith Tb.181

Lucerne dwarf virus
Alfalfa dwarf disease virus Weimer 1936
Medicago virus 3 K.M.S.

LUCERNE MOSAIC Holmes Hb.91; Smith Tb.179; Black & Price, Phytopathology, xxx,444,1940; Ross ibid., xxxi, 394, 1941

Lucerne mosaic virus
Alfalfa mosaic virus Weimer 1931
Common alfalfa virus Weimer 1934
Alfalfa virus 1 Pierce 1934
Medicago virus 1 K.M.S.
Alfalfa-mosaic virus 1 Zaumeyer 1938
Alfalfa virus 2 Pierce 1934 fide Zaumeyer 1938
Medicago virus 2 K.M.S.
Marmor medicaginis H.
Marmor medicaginis H. var. typicum Black & Price 1940
Chilli mosaic virus Kovačevski 1942 fide Kovačevski 1942
Medicago virus 2 K.M.S. var typicum Black & Price Kovačevski 1942

Strains or related viruses

Alfalfa mosaic virus 1A Zaumeyer 1938

Alfalfa mosaic virus 1B Zaumeyer 1938

Potato calico virus Hungerford 1922, Porter 1931
Solanum virus 10 K.M.S.
Marmor medicaginis H. var. solani Black & Price 1940

LUCERNE WITCHES' BROOM Holmes Hb.14; Smith Tb.182

Lucerne witches' broom virus Edwards 1936
Spindle shoot virus Edwards 1936
Mistletoe virus Edwards 1936
Kurrajong virus Edwards 1936
Bunchy-top virus Edwards 1936
Medicago virus 4 K.M.S.
Chlorogenus medicaginis H. (alfalfa witches'-broom virus)

MAIZE MOSAIC Holmes Hb.59; Smith Tb.439

Maize mosaic virus
Corn mosaic virus Kunkel 1923
Corn stripe virus Stahl 1927 fide H.
Corn leaf stripe virus Stahl 1927 fide K.M.S.
Yellow stripe disease virus Kunkel 1922 fide H.
Maize stripe disease virus Storey 1936 fide H.
Corn virus 1 J.Johnson in K.M.S.
Zea virus 1 K.M.S.
Marmor zeae H.

MAIZE STREAK Holmes Hb.56; Smith Tb.441

Maize streak virus Storey 1925
Corn virus 2 J.Johnson in K.M.S.
Zea virus 2 K.M.S. (in part) fide H.
Marmor maidis var. typicum H. (maize-streak virus, typical strain)

Strains or related viruses

Maize-streak virus, cane-streak strain H.
Marmor maidis var. sacchari H.
Zea virus 2 K.M.S. (in part)
Sugar cane streak disease virus Storey 1925

Maize-streak virus, mottle strain H.
Marmor maidis var. mite H.
Zea virus 3 K.M.S.
Maize mottle virus Storey 1937

MOUNTAIN ASH VARIEGATION Smith Tb.149

Mountain ash variegation virus
Infectious chlorosis [virus] Baur 1907, Hertsch 1930
Pyrus variegation virus Atanasoff 1935
Pyrus virus 1 K.M.S.

NARCISSUS MOSAIC Haasis, Mem.Cornell agric.Exp.Sta. 224,1939; Phytopathology, xxix, 890-895, 1939; Moore, Bull.Minist. Agric., London, 117, p. 77, 1939

Narcissus mosaic virus Atanasoff 1928, McWhorter & Weiss, 1932, Haasis 1939

MAIZE MAIZE should be kept dried
for the winter, while

Yellow stripe [virus] Darlington 1908 fide Haasis 1939
Gray disease virus Griffiths & Juenemann 1919, Griffiths 1924

Strain or related virus

Narcissus white streak virus McWhorter 1932, Haasis 1939
Silver streak virus Chittenden 1933 fide Haasis
Stripe virus Gould 1935, Caldwell & James 1938

ONION YELLOW DWARF Holmes Hb.66; Smith Tb.418

Onion yellow dwarf virus Melhus et al. 1929; Drake, Harris & Tate 1932
Onion brittle [virus] Clinton 1905 fide M.T. Cooke 1934
?Onion Rotzkrankheit virus Bremer [1929] 1937
Zwiebelrotz virus Molz & Müller 1926 fide Bremer 1937
Onion Gelbstreifigkeit virus Bremer 1937
Onion crinkles virus fide K.M.S.
Onion mosaic virus fide K.M.S.
Allium virus 1 K.M.S.
Marmor cepae H.

PEONY RING SPOT Smith Tb.5

Peony ring spot virus Green 1935; Dufrénoy 1934
Paeonia virus 1 K.M.S.

PASSION FRUIT WOODINESS Holmes Hb.77; Smith Tb.50

Passion fruit woodiness virus [Cobb 1901]
Passion fruit bullet disease virus Noble 1928
Passiflora virus 1 K.M.S.
Marmor passiflora H.

PEA ENATION MOSAIC Holmes Hb.90; Smith Tb.165

Pea enation mosaic virus Osborn 1935
Pea virus 1 Pierce 1935, Stubbs 1937
Pisum virus 1 K.M.S.
Marmor pisi H.

PEA MOSAIC Holmes Hb.89; Smith Tb.168

Pea mosaic virus Doolittle & Jones 1925, Chamberlain 1936,1937
Garden pea mosaic virus Dickson 1921
Lupin sore shin virus Neill et al.1934 fide Chamberlain 1935

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Common pea mosaic virus Pierce 1935
Pea virus 3 Pierce 1935, Murphy & Pierce 1937 fide K.M.S.
Pea mosaic virus 1 Zaumeyer & Wade 1935 fide K.M.S.
Red clover mosaic virus Zaumeyer & Wade 1936 fide K.M.S.
Pea virus 2 Osborn 1937
Pisum virus 2 K.M.S.
Marmor leguminosarum H.

Strains or related viruses

Pea marble mosaic virus Stubbs 1936, 1937
Pea virus 2A Stubbs
Pisum virus 2A K.M.S.

Pea speckle mosaic virus Stubbs 1936, 1937
Pea virus 2B Stubbs
Pisum virus 2B K.M.S.

Pea Mild mosaic virus Stubbs 1936, 1937
Pea virus 2C Stubbs
Pisum virus 2C K.M.S.

PEA MOTTLE F. Johnson, Phytopathology, xxxii, 103-116, 1942

Pea mottle virus F. Johnson 1942
White clover mosaic virus Pierce 1935 (in part) fide F. F. Johnson

White clover virus 1 Pierce 1935
Trifolium virus 1 Weiss 1939
Marmor efficiens F. Johnson 1942
Broad bean mosaic virus Pierce 1935 fide F. Johnson
Severe pea mosaic virus F.Johnson & Jones 1937 fide Johnson

?Pea virus 2 Zaumeyer & Wade 1935

PEA STREAK

Pea streak virus Zaumeyer & Wade, J.agric.Res., lvi,747, 1938

Pea streak virus 1 Zaumeyer 1938
Pisum virus 5 Weiss 1939

Pea streak virus Chamberlain, N.Z.J.Sci.Tech., A,xx,365, 1939

Pisum virus 3 Chamberlain 1939

PEA WILT — F. Johnson, Phytopathology, xxxii, 103-116-1942

Pea wilt virus F. Johnson 1942
White clover mosaic virus Pierce 1935 (in part) fide F. Johnson
White clover virus 1 Pierce 1935
Trifolium virus 1 Weiss 1939
Marmor repens F. Johnson 1942
Broad-bean local-lesion virus Peirce 1935 fide F. Johnson

PEACH ASTEROID SPOT — Holmes Hb.83

Peach asteroid spot virus Cochran & C.O. Smith 1938
Marmor astri H.

PEACH LINE-PATTERN VIROSIS — Cation, Phytopathology, xxxi, 1004-1010, 1941

Peach line-pattern virosis virus Cation 1940
Marmor lineopictum Cation 1941
?Plum and peach virus Valleau 1932
?Vacaville plum mosaic virus Thomas & Rawlins 1939

PEACH LITTLE PEACH

Peach little peach virus, see under Peach yellows virus

PEACH MOSAIC — Holmes Hb.81; Smith Tb.142

Peach mosaic virus Hutchins 1933
Peach virus 6 J.Johnson in K.M.S.
Prunus virus 5 K.M.S.
Marmor persicae H.

PEACH, PHONY — Holmes Hb.126; Smith Tb.136

Phony peach virus [Neal 1921] Hutchins 1930
Peach virus 4 J.Johnson in K.M.S.
Prunus virus 3 K.M.S.
Nanus mirabilis H.

PEACH RED SUTURE — Smith Tb.141 [? a strain of peach yellows virus fide H.]

Peach red-suture virus Bennett 1926, Cation 1932

Peach virus 5 J.Johnson in K.M.S.
Prunus virus 4 K.M.S.

PEACH ROSETTE Holmes Hb.125; Smith Tb.134

Peach rosette virus [E.F. Smith 1891] McClintock 1923
Peach virus 2 J.Johnson in K.M.S.
Prunus virus 2 K.M.S.
Nanus rosettae H.

PEACH ROSETTE MOSAIC Hildebrand, Phytopathology, xxxi, 353-355, 1941

Peach rosette mosaic virus Cation 1933, Hildebrand 1941
Michigan rosette virus Cation 1933

PEACH WART Blodgett, Phytopathology, xxxiii, 21-32, 1943

Peach wart virus Blodgett 1943
Peach blister [virus] Blodgett 1939
Galla verruca Blodgett 1943

PEACH YELLOWS Holmes Hb.5; Smith Tb.128

Peach yellows virus [E.F. Smith 1888] Kunkel 1933
Peach virus 1 J.Johnson in K.M.S.
Prunus virus 1 K.M.S.
Chlorogenus persicae var. vulgare H. (peach-yellows virus, typical strain)

Strain or related virus

Peach little peach virus [E.F. Smith 1891] Bennett 1926
Peach virus 3 J.Johnson in K.M.S.
Prunus virus 1A K.M.S.
Chlorogenus persicae var. micropersica H. (peach-yellows virus, little-peach strain)

PEANUT, see GROUNDNUT

PEAR STONY PIT Holmes Hb.76

Pear stony pit virus Kienholz 1939
Marmor pyri H.

PEACH X-DISEASE Holmes Hb.82

Peach X-disease virus Stoddard 1938
Peach yellow-red virosis virus Hildebrand & Palmiter 1938, 1943
Marmor lacerans H.
Sweet cherry buckskin virus Rawlins & Hoke 1931, Rawlins & Thomas 1941 fide Rawlins & Thomas 1941
Peach leaf casting yellows virus Thomas, Rawlins & Parker 1940 fide Thomas et al.

Carpobthora lacerans (H.) Mc Kinney 1941.

Strain or related virus

Peach western X-disease virus Zeller & Evans 1941

PELARGONIUM LEAF CURL Smith Tb.48

Pelargonium leaf curl virus Pape 1927
Pelargonium virus Verplancke 1932
?Pelargonium virus Blattný 1933
Pelargonium virus 1 K.M.S.
Geranium leaf curl virus Berkeley 1938

PLANTAGO MOSAIC

Plantago mosaic virus, see under Tobacco mosaic virus

PLUM DWARF Holmes Hb.128; Smith Tb.148; Hildebrand, Phytopathology, xxxii, 741-751, 1942

Plum dwarf virus
Prune dwarf virus Thomas & Hildebrand 1936
Prunus virus 6 K.M.S.
Nanus pruni H.

POTATO APICAL LEAF ROLL Smith Tb. 389

Potato apical leaf roll virus Schultz & Bonde 1929
Potato yellow top virus Folsom 1926 fide K.M.S.
Solanum virus 17 K.M.S.

POTATO AUCUBA MOSAIC Holmes Hb.49; Smith Tb. 371, 367

Potato aucuba mosaic virus Quanjer 1931
Potato non-infectious chlorosis virus Murphy fide K.M.S.
Potato virus G Clinch, Loughnane, & Murphy 1936
Solanum virus 9 K.M.S.

Marmor aucuba H.
Potato pseudo-net-necrosis virus Quanjer 1929 fide H.
Potato phloem-parenchyma necrosis virus Quanjer 1934
Potato tuber blotch virus Loughnane & Clinch 1934
Potato streak virus Koch & Johnson 1935 fide Loughnane & Clinch 1935
Monocraat virus Loughnane & Clinch 1935, Dykstra 1939
Potato virus F Clinch et al. 1936
Solanum virus 8 K.M.S.
Canada-streak virus Dykstra 1939 fide H.
Marmor aucuba H. var. canadense Black & Price 1941 0

POTATO CALICO

Potato calico virus, see under Lucerne mosaic virus

POTATO CRINKLE (Syn. American Mild Mosaic and Crinkle Mosaic)

Potato mottle virus + Potato veinal mosaic virus

POTATO LEAF ROLL Holmes Hb.120; Smith Tb.380

Potato leaf roll virus [Appel 1911]
Potato Kräuselkrankheit [virus] Appel 1907
Potato leaf curl [virus] Pethybridge 1911
Potato phloem necrosis virus Quanjer 1913
Potato virus 1 J.Johnson in K.M.S.
Solanum virus 14 K.M.S.
Corium solani H.

POTATO LEAF-ROLLING MOSAIC Smith Tb.375

Potato leaf-rolling mosaic virus Schultz & Folsom 1923, J.Johnson 1929
Potato virus 7 J.Johnson in K.M.S.
Solanum virus 11 K.M.S.
Potato virus E Dykstra 1939

?Potato virus K Köhler 1941, 1942 fide Köhler
Potato rolling mosaic virus Köhler 1935

POTATO MOTTLE Holmes Hb.42; Smith Tb.341

Potato virus x K.M. Smith 1939, 1931
Potato common mosaic virus Quanjer 1923
Potato mosaic B virus Fernow 1925
Potato mottle virus J. Johnson 1925

Latent potato virus Schultz 1925
Tobacco ring spot virus J.Johnson 1927 fide K.M.S.
Tobacco virus 5 J.Johnson 1927
Healthy potato virus E.M. Johnson 1930
Potato virulent latent virus Burnett & Jones 1931
Potato virus X, S strain Salaman 1930
Potato ring spot virus J.Johnson 1925, Kooh 1932
Marmor dubium var. annulus H. (potato-mottle virus, potato-ringspot strain)
Interveinal mosaic virus Quanjer fide K.M.S.
Potato top-necrosis virus Quanjer 1931
Potato acronecrosis virus Quanjer 1931
Potato simple mosaic virus Murphy 1932
Hy. IV virus Hamilton 1932
Potato virus 16 J.Johnson in K.M.S.
Solanum virus 1 K.M.S.
Marmor dubium var. vulgare H. (potato-mottle virus, typical strain)
Potato mild mosaic virus Samuel 1943

Strains or related viruses

Masked virus of Aucklander short-top potatoes Chamberlain 1941

Potato interveinal necrosis virus Salaman 1938
Potato virus XN Salaman 1938

Potato-mottle virus, masked-mottle strain H.
Marmor dubium var. obscurum H.

Potato virus X, strains XH, XG, XL, and XS Salaman 1938

Potato XI strain Böhme 1933

Potato yellow-mottle virus Putman 1937
Potato yellow-mottle X-type virus Bald & Pugsley 1941

President streak virus Murphy 1927 fide Bawden 1943
Potato foliar necrosis virus Bawden 1934
Potato virus D Bawden 1934
Solanum virus 6 K.M.S.
Potato virus XD Salaman 1938

Tomato necrosis virus Chamberlain 1940

Up-to-Date streak virus Murphy & McKay 1926 fide Clinch 1942
Potato virus B Bawden in Smith 1933, Bawden 1936
Solanum virus 4 K.M.S., Dennis 1939

Potato marginal leaf roll Quanjer 1923, Fernow 1923
Potato virus 8 J.Johnson in K.M.S.
Solanum virus 12 K.M.S.
Acrogenus solani var. vulgaris H. (potato spindle-tuber virus, typical strain)

Strain or related virus

Potato unmottled curly dwarf virus Schultz & Folsom 1923
Potato yellow dwarf virus Barrus & Chupp 1922
Potato virus 9 J.Johnson in K.M.S.
Solanum virus 13 K.M.S.
Acrogenus solani var. severus H. (potato spindle-tuber virus, unmottled curly-dwarf strain)

POTATO UNMOTTLED CURLY DWARF

Potato unmottled curly dwarf virus, see under Potato spindle tuber virus

POTATO VEINAL MOSAIC Holmes Hb.47; Smith Tb.353

Potato virus A Murphy & McKay 1932
Super-mild mosaic virus Quanjer fide K.M.S.
Potato veinal mosaic virus Murphy 1936
Potato virus P Köhler 1936 fide Köhler 1937
Solanum virus 3 K.M.S.
Marmor solani H. (potato mild-mosaic virus)

POTATO WITCHES' BROOM Holmes Hb.7; Smith Tb.385

Potato witches' broom virus Hungerford & Dana 1924
Tomato witches' broom virus Young & Morris 1928
Tobacco witches' broom virus Young 1929
Potato virus 11 J.Johnson in K.M.S.
Solanum virus 15 K.M.S.
Chlorogenus solani H.
Chlorophthora solani (H.) McKinney 1921

POTATO YELLOW DWARF Holmes Hb.94; Smith Tb.388

Potato yellow dwarf virus Barrus & Chupp 1922
Potato virus 5 J.Johnson in K.M.S.
Solanum virus 16 K.M.S.
Marmor vastans H.
- - var vulgare Black 1940

Acrogenus vastans var

Strains or related viruses

Marmor vastans var. lethale Black 1940
Aucubacenus vastans var. lethale (Black 1944)
Marmor vastans var. agalliae Black 1941

PRIMULA MOSAIC Topkins & Middleton, J.agric.Res., lxiii, 671-679, 1941

Primula mosaic virus
Primula obconica mosaic virus Tompkins & Middleton 1941

PRIVET MOSAIC Holmes Hb.52

Privet mosaic virus
Ligustrum infectious chlorosis [virus] Baur 1907
Marmor ligustri H. (Ligustrum-mosaic virus)

PRUNUS VEIN-CLEARING Zeller & Evans, Phytopathology, xxxi, 463-467, 1941

Prunus vein clearing virus Zeller & Evans 1941
Prunus virus 8 Zeller & Evans 1941
Marmor nerviclarens Zeller & Evans 1941

RADISH MOSAIC Tompkins, J.agric.Res., lviii, 119-130, 1939

Radish mosaic virus Tompkins 1939

RAPE SAVOY Holmes Hb.133

Rape savoy virus H.
Rape mosaic virus Pape 1935
Savoia napi H.

RASPBERRY DECLINE Zeller & Braun, Phytopathology, xxxiii, 156-161, 1943

Raspberry decline virus
Raspberry decline disease virus Zeller & Braun 1943
Minuor rubiorum Zeller & Braun 1943
Rubus virus 8 Zeller & Braun 1943

RASPBERRY LEAF CURL

ALPHA Holmes Hb.121; Smith Tb.121

[illegible] Black 1941

[illegible] agallinae Black 1941

Raspberry alpha leaf curl virus
Raspberry leaf-curl [virus] Green 1895
Raspberry curl virus Melchers 1914
Raspberry yellows virus Melchers 1914
Raspberry alpha-curl virus Bennett 1930
Raspberry virus 1A J.Johnson in K.M.S.
Rubus virus 3 K.M.S.
Corium rubi var. alpha H. (raspberry leaf-curl virus, alpha strain)

BETA Holmes Hb.122; Smith Tb.121

Raspberry beta leaf curl virus
Raspberry beta-curl virus Bennett 1930
Raspberry virus 1B J.Johnson in K.M.S.
Rubus virus 3A K.M.S.
Corium rubi var. beta H. (raspberry leaf-curl virus, beta strain)

RASPBERRY MOSAIC Holmes Hb.80; Smith Tb.112,115

Raspberry mosaic virus Dodge & Wilcox 1926
Red raspberry mosaic virus Rankin & Hockey 1922

Red raspberry mild mosaic virus Bonnett 1927, 1932 fide Cooley 1936
Raspberry mosaic virus 3 Rankin 1931
?Raspberry mild mosaic 2 virus Harris 1940
Raspberry virus 1 (green mottle or green mosaic virus) Cooley 1936
Raspberry virus 2 J.Johnson in K.M.S.
Rubus virus 1 K.M.S.
Marmor rubi H.
[illegible] rubi [illegible]

Strains or related viruses

Raspberry yellow mosaic virus Bennett 1927
Raspberry mosaic virus 2 Rankin 1931
Raspberry virus 2 (yellow mosaic virus) Cooley 1936
Raspberry virus 2B J.Johnson in K.M.S.
Rubus virus 2 K.M.S.
?Raspberry mosaic 1 virus Harris 1940

Red raspberry medium severe mosaic virus Bennett 1932

Red raspberry severe mosaic virus Bennett 1932
?Raspberry severe mosaic 2 virus Harris 1940

RASPBERRY NECROTIC FERN LEAF MOSAIC Chamberlain (G.C.), Sci. Agric., xxii, 119-124, 1941

Raspberry necrotic fern leaf mosaic virus Chamberlain 1941

RASPBERRY STREAK Holmes Hb.124; Smith Tb.123

Raspberry streak virus Zeller 1923
Raspberry eastern blue stem virus Wilcox 1922
Raspberry rosette virus Rankin 1923
Raspberry severe streak virus Rankin 1931
Raspberry leaf-curl virus 3 Rankin 1931
Raspberry virus 3 J.Johnson in K.M.S.
Rubus virus 4 K.M.S.
Nanus orientalis H.

Strain or related virus

Raspberry mild streak virus Rankin 1931
Raspberry leaf curl virus 4 Rankin 1931

RASPBERRY YELLOW BLOTCH-CURL Chamberlain (G.C.), Canad.J.Res., Sect. C, xvi, 118-124, 1928

Raspberry yellow blotch-curl virus Chamberlain 1938

RICE DWARF Holmes Hb.64; Smith Tb.450

Rice dwarf virus
Rice stunt disease virus Takata 1896
Rice dwarf disease virus Fukushi 1931
Rice mosaic virus fide H.
Oryza virus 1 K.M.S.
Marmor oryzae H.

RICE STRIPE Smith Tb.454

Rice stripe virus
Rice stripe disease virus Kuribayashi 1931
Oryza virus 1 K.M.S.

ROBINIA BROOMING Holmes Hb.13; Smith Tb.184

Robinia brooming virus
Robinia brooming disease virus Hartley & Haasis 1929
Robinia virus 1 K.M.S.

Locust brooming disease virus fide H.
Chlorogenus robiniae H. (locust witches'-broom virus)
Polyctadus robiniae (

ROSE MOSAIC Holmes Hb.74; Smith Tb.152

Rose mosaic virus White 1929, 1930
Rose mosaic-like mottling [virus] Norton 1909
Infectious chlorosis of rose virus Milbrath 1930
Rosa virus 1 K.M.S.
Marmor rosae H.

ROSE STREAK Holmes Hb.75; Smith Tb.155

Rose streak virus Brierley 1935
Rosa virus 4 K.M.S.
Marmor veneniferum H.

ROSE WILT Holmes Hb.73; Smith Tb.154

Rose wilt virus Grieve 1931
Rose die-back virus Grieve 1931
Rosa virus 3 K.M.S.
Marmor flaccumfaciens H.

ROSE YELLOW MOSAIC Smith Tb.154

Rose yellow mosaic virus Brierley 1935
Rosa virus 2 K.M.S.

SANDAL LEAF-CURL MOSAIC Holmes Hb.94; Smith Tb.201

Sandal leaf-curl mosaic virus Venkata Rao 1932
Santalum virus 2 K.M.S.
Marmor santali H.

SANDAL SPIKE Holmes Hb.8; Smith Tb.196

Sandal spike virus
Sandal spike disease virus
Sandal spike common Venkata Rao & Iyengar 1934
Sandal spike rosette Venkata Rao & Iyengar 1934
Santalum virus 1 K.M.S.
Chlorogenus santali H.

Sandal pendulous spike virus Venkata Rao & Iyengar 1934
Santalum virus 1A K.M.S.

SOY BEAN MOSAIC Smith Tb.164

Soybean mosaic virus Gardner & Kendrick 1921
Soybean virus 1 Pierce 1935
Soja virus 1 K.M.S.

STOCK MOSAIC Holmes Hb.71

Stock mosaic virus.
Stock-breaking virus Tompkins 1934
Stock mosaic (mild and severe) viruses Tompkins 1939
Matthiola virus 1 K.M.S.
Marmor matthiolae H.

STRAWBERRY CRINKLE Holmes Hb.78; Smith Tb.105

Strawberry crinkle virus Zeller & Vaughan 1932
?Strawberry mild crinkle virus Zeller 1933, Harris 1937
Strawberry severe crinkle virus Harris 1937
Strawberry virus 4 J.Johnson in K.M.S.
Fragaria virus 2 K.M.S.
Marmor fragariae H.

STRAWBERRY DWARF Smith Tb.100

Strawberry dwarf virus Plakidas 1928
Strawberry virus 3 J.Johnson in K.M.S.
Fragaria virus 4 K.M.S.

STRAWBERRY STUNT Zeller & Weaver, Phytopathology, xxxi 849-851, 1941

Strawberry stunt virus Zeller & Weaver 1941
Fragaria virus 5 Zeller & Weaver 1941
Nanus cupuliformans Zeller & Weaver 1941

STRAWBERRY WITCHES' BROOM Holmes Hb.128; Smith Tb.108

Strawberry witches' broom virus Zeller 1927
Strawberry virus 2 J.Johnson in K.M.S.
Fragaria virus 3 K.M.S.
Nanus fragariae H.

STRAWBERRY YELLOW EDGE Holmes Hb.79; Smith Tb.101

Strawberry yellow edge virus Harris 1933
Strawberry yellows virus Plakidas 1928 fide Harris

Potato. " " 2 on tobacco causing net mosa
" spot "

Strawberry xanthosis virus Plakidas 1927
Strawberry virus 1 J.Johnson in K.M.S.
Fragaria virus 1 K.M.S.
Marmor marginans H.

SUGAR BEET LEAF CURL Holmes Hb.132; Smith Tb.42

Sugar beet leaf curl virus [Wille 1928]
Sugar beet leaf crinkle [virus] Wille 1928
Salatkopf [virus] Wille 1928 fide H.
Sugar beet virus 3 J.Johnson in K.M.S.
Beta virus 3 K.M.S.
Savoia betae H. (beet-Kräuselkrankheit virus)

SUGAR BEET CURLY TOP Holmes Hb.11 (host list p.174); Smith Tb.21

Sugar beet curly top virus [Ball 1909, Boucquet & Hartung 1915] Carsner 1919, Severin 1919
Tomato yellows [virus] Humphrey 1928
Western yellow blight virus
Beta virus 1 K.M.S.
Sugar beet virus 1 J.Johnson in K.M.S.
Chlorogenus eutetticola H.
Ruga verrucosans Carsner & Bennett 1943

Strains or related viruses

Attenuated sugar beet curly top virus Carsner 1925, Bennett 1935
Sugar beet curly top (Argentina) virus Fawcett 1927
Sugar beet curly top virus strains No. 1, 2, 3, 4, Giddings 1937
Also on tobacco

SUGAR BEET MOSAIC Holmes Hb.72; Smith Tb.37

Sugar beet mosaic virus Robbins 1921, Hoggan 1933
Beet yellows [virus] Prillieux & Delacroix 1898 fide K.M.S.
Beet mosaic virus Lind 1915
Spinach and beet mosaic virus Böning 1927
?Beet jaunisse virus Roland 1936 fide H.
Sugar beet virus 2 J.Johnson in K.M.S.
Beta virus 2 K.M.S.
Marmor betae H.

SUGAR BEET SAVOY DISEASE Holmes Hb.132; Smith Tb.47

Sugar beet savoy disease virus Coons, Kotila, & Stewart 1937

Beta virus 5 K.M.S.
Savoia piesmae H. (beet savoy virus)

SUGAR BEET YELLOWS Smith Tb.45; Watson Ann.appl.Biol.,xxix, 358-365, 1942

Sugar beet yellows Watson 1942
Beet yellows virus Petherbridge & Stirrup 1935
Beet vergelingsziekte virus Quanjer 1934
?Beet jaunisse virus Roland 1936 fide K.M.S.
Beta virus 4 K.M.S.

SUGAR-CANE DWARF Holmes Hb.109; Smith Tb.437

Sugar-cane dwarf virus
Sugar-cane dwarf disease virus Bell 1932, Storey 1936
Saccharum virus 5 K.M.S.
Galla queenslandiensis H.

SUGAR-CANE FIJI DISEASE Holmes Hb.106; Smith Tb.432

Sugar-cane Fiji disease virus [Muir 1910], Kunkel 1928, Ocfemia 1932, Mungomery & Bell 1933
Saccharum virus 2 K.M.S.
Galla fijiensis H.

SUGAR-CANE MOSAIC Holmes Hb.60; Smith Tb.424

Sugar-cane mosaic virus Brandes 1919
Sugar-cane yellow stripe disease [virus] Wakker & Went 1898 fide K.M.S.
Sugar-cane mottling disease [virus] Stevenson 1917 fide K.M.S.
Corn mosaic virus Brandes 1920 fide H.
Grass mosaic virus Brandes & Klaphaak 1923, Kunkel 1928
Sugar-cane virus 1 J.Johnson in K.M.S.
Saccharum virus 1 K.M.S.
Marmor sacchari H.

Strains or related viruses

Maize and sorghum mosaic virus Storey 1929
Transvaal grass mosaic virus Storey 1929
Saccharum virus 1A K.M.S.

Sugar-cane mosaic type 1 virus Summers 1934
Saccharum virus 1B K.M.S.

EA PINGUEM NECROSIS

Bund, 1944

Bund, 1944

Sugar-cane mosaic type 2 virus Summers 1934
Saccharum virus 1C K.M.S.

Sugar-cane mosaic type 3 virus Summers 1934
Saccharum virus 1D K.M.S.

Sugar-cane mosaic type 4 virus Summers 1934
Saccharum virus 1E K.M.S.

Sugar-cane severe mosaic virus Tims 1935
Saccharum virus 1F K.M.S.

'Agaul' sugar-cane mosaic virus Storey 1936
Saccharum virus 1G K.M.S.

SUGAR-CANE SEREH DISEASE Holmes *Hb.*129; Smith *Tb.*436

Sugar-cane sereh disease virus [Wakker & Went 1898, Kunkel 1928]

Saccharum virus 3 K.M.S.
Nanus sacchari H.

SUGAR-CANE STREAK Smith *Tb.*437

Sugar-cane streak virus
Sugar-cane 'R.P.8' streak virus Shepherd 1929, Storey 1936
Saccharum virus 4 K.M.S.

TOBACCO BROAD RING SPOT J.Johnson & Fulton, *Phytopathology*, 605-612, 1942

Tobacco broad ring-spot virus J.Johnson & Fulton 1940

TOBACCO ETCH Holmes *Hb.*40; Smith *Tb.*259; Bawden & Kassanis, *Ann.appl.Biol.*,xxviii,107,1941

Tobacco etch virus E.M. Johnson 1930
Datura Z-mosaic virus Blakeslee 1921 fide H.
Tomato etch virus fide Valleau 1940
Tobacco virus 13 J.Johnson in K.M.S.
Nicotiana virus 7 K.M.S.
Marmor erodens var. *vulgare* H. (tobacco-etch virus, typical strain)

Foliopellis erodens (H.) Valleau 1940

Strains or related viruses

Tobacco etch (Georgia) virus E.M. Johnson 1930

Tobacco coarse etch virus E.M. Johnson 1930

Tobacco etch + virus E.M. Johnson 1930

Tobacco mild etch virus Bawden & Kassanis 1941

Tobacco severe etch virus E.M. Johnson 1930, Bawden & Kassanis 1941
Tobacco virus 13C J.Johnson in H.
Marmor erodens var. severum H. (tobacco-etch virus, severe-etch strain)

TOBACCO GREEN MOSAIC Smith Tb.258; Thornberry & McKinney, Phytopathology,xxix, 250-260, 1939

Tobacco green mosaic virus McKinney 1929
Tobacco virus 12 J.Johnson in K.M.S.
Nicotiana virus 6 K.M.S.
Tobacco mild-dark-green mosaic virus Thornberry & McKinney 1939

TOBACCO LEAF CURL Holmes Hb.115; Smith Tb.262

Tobacco leaf curl virus Storey 1932
Tobacco Faltenzwerg [virus] Peters & Schwarz 1912 fide Thung 1932
Tobacco krekoh [virus] Keuchenius 1915 fide Thung 1932
Tobacco gilah [virus] Jochems 1926 fide Thung 1932
Tobacco crinkle [virus] Roberts 1930 fide Thung 1932
Tobacco crinkly dwarf Storey 1931, Moore 1933 fide Thung 1932
?Tobacco cabbaging virus Storey 1932
Tobacco curly leaf virus Storey 1932
Tobacco 'frenching' virus Storey 1932
Tobacco (gewone) kroepoek virus [Keuchenius 1915] Thung 1932
Tobacco kroesblaar virus Moore 1933
Tobacco leaf-curl virus 1 Pal 1937
Tobacco virus 16 J.Johnson in K.M.S.
Nicotiana virus 10 K.M.S.
Ruga tabaci H.

TOBACCO COARSE ETC

Coarse - stalked (var.) Vallicam F.E.M. Timson 1924

Coarse - stalk, var. F.M. Timson 1930

dated 31/1/44

Strains or related viruses

Tobacco leaf curl viruses 2, 3 (=tobacco heldere kroepoek Thung 1932), and 4 Pal 1937

Tobacco krulziekte (leaf curl) virus Thung 1932

TOBACCO MOSAIC Holmes Hb.17; Smith Tb.230

Tobacco mosaic virus Clinton 1909, Allard 1914
Mosaikkrankheit des Tabaks [virus] Mayer 1886
Pockenkrankheit des Tabaks [virus] Iwanowski 1890
Tobacco calico virus Clinton 1903
Tobacco mosaic virus A. Fernow 1926
Tobacco ordinary mosaic virus J.Johnson 1926
Tobacco virus 1 J.Johnson 1927
Tobacco true mosaic virus Valleau & E.M. Johnson 1927
Tobacco 'french' (or 'dry weather french') virus Valleau & Johnson 1927
Tobacco severe mosaic type 1 virus E.M. Johnson 1930
Pepper mosaic virus E.M. Johnson 1930
Typical tobacco mosaic virus Duggar 1933
Ordinary or mild tomato mosaic virus Ainsworth 1933
Tobacco distorting mosaic virus Duggar & B.Johnson 1933, Holmes 1934
Ordinary field type tobacco mosaic virus Kunkel 1934
Tobacco virus 1A Thung 1935
Nicotiana virus 1 K.M.S.
Tobacco mosaic virus, green-mottling distorting-type strain Jensen fide Jensen
Marmor tabaci var. vulgare H. (tobacco-mosaic virus, typical strain)
Protobios mosaicus var. tabaci d'Herelle
Musivum tabaci (H.) Valleau 1940
Marmor tabaci (H. ex Valleau

Strains or related viruses

Petunia mosaic virus, strain B Matsumoto 1939

Plantago mosaic virus
Marmor tabaci var. plantaginis Holmes 1941 (tobacco-mosaic virus, rib-grass strain)
Plantago virus Valleau & Johnson 1943

Tobacco attenuated mosaic virus J.Johnson 1926
Tobacco medium mosaic virus J.Johnson 1927
Tobacco virus 7 J.Johnson 1927

Tobacco concentrated yellow mosaic virus type 1 and 2 McKinney 1931

Tobacco mild mosaic virus types A & B Matsumoto & Tateoka 1940

Tobacco mild mosaic virus types 1 & 2 E.M. Johnson 1930

Tobacco mild mosaic, white mosaic (=virus VIa Thung 1938), distorting mosaic I, ringspot necrosis, yellow bleaching tobacco ring mosaic, and severe mosaic viruses Thung 1935

Tobacco mosaic viruses VIb and VIc Thung 1938

Tobacco-mosaic virus, localized yellow lesion strain H.
Marmor tabaci var. immobile H.

Tobacco-mosaic virus, masked-sympton strain Holmes 1934
Nicotiana virus 1D K.M.S.
Marmor tabaci var. obscurum H.

Tobacco mosaic virus, minute yellow-lesion strain H.
Tobacco mosaic virus, strain 104 Jensen 1937
Marmor tabaci var. artum H.

Tobacco mosaic virus, mottling strain Holmes 1934
Tobacco mosaic virus, non-distorting green-mottling strain (virus No. 502) Jensen 1937 fide Jensen

Tobacco mosaic virus, necrotic lesion strain H.
Tobacco mosaic virus, strain J 14 Jensen 1937, 1939
Marmor tabaci var. lethale H.

Tobacco mosaic virus, strains 101, 302, 111, 9, 3, 14 Jensen 1937

Tobacco non-burning virus Valleau & E.M. Johnson 1935

✓Tobacco ring mosaic virus E.M. Johnson 1930 caused by Solanum virus 1.
Tomato ring mosaic streak virus Ainsworth et al 1934
Lycopersicum virus 2 K.M.S.

Tobacco Rotterdam B disease virus Jochems 1933 fide Thung 1938

Tobacco virus 17 J.Johnson in Smith
✓Nicotiana virus 9 K.M.S.

Tobacco speckled mosaic virus J.Johnson 1926
Tobacco virus 2 J.Johnson 1927
Nicotiana virus 2 K.M.S.

Tobacco severe mosaic type 2 virus E.M. Johnson 1930

Tobacco veinbanding necrosis virus Chamberlain 1940

Tobacco white mosaic virus E.M. Johnson 1930

Tobacco yellow mosaic virus, isolations No. 3, No. 107
" crinkle mosaic Nic. Virus I or Cucumis Virus I. Jensen 1930
Tobacco net mosaic virus mild Nicot. Virus I.
" band leaf & thread leaf
Tomato aucuba mosaic virus Bewley 1923, J.H. Smith 1928
Tobacco yellow mosaic virus McKinney 1926, ?E.M. Johnson 1930
Tobacco virus 6 J.Johnson 1937 fide Ainsworth et al 1934
Tobacco aucuba mosaic virus Kunkel 1932
Tobacco yellow mosaic virus, isolation No. 102 Jensen 1933
Tomato aucuba mosaic virus AY Caldwell 1935

Tobacco mosaic virus, yellow-mottling aucuba-type strain (virus No. 108) Jensen 1937 fide Jensen
Nicotiana virus 1C K.M.S.
?Nicotiana virus 1B K.M.S. (tomato yellow leaf virus)
Marmor tabaci var. aucuba H. (tobacco mosaic virus, tomato aucuba mosaic strain)

Tomato aucuba mosaic virus AG Caldwell 1935
Tobacco mosaic virus, green-mottling aucuba-type strain (virus No. 501) Jensen 1937 fide Jensen

Tomato aucuba mosaic virus, attenuated strains Kunkel 1934

Tomato enation mosaic virus Ainsworth 1937
Nicotiana virus 1A K.M.S.
Marmor tabaci var. deformans H. (tobacco-mosaic virus, enation-mosaic strain)

Tomato fruit stripe virus L.K. Jones 1940

Tomato leaf-shrivelling virus Doolittle & Beecher 1942
Marmor tabaci var. siccans Doolittle & Beecher 1942

Tomato stem necrosis virus J.Johnson 1927
Tobacco virus 9 J.Johnson 1927

Tomato streak virus
Tomato stripe, streak, or glasshouse streak virus Jarrett 1930
Tomato single-virus streak virus Ainsworth et al. 1934
Tomato streak virus No. 1. Ainsworth et al. 1934
Tomato virus 4 J.Johnson in K.M.S.
Lycopersicum virus 1 K.M.S.
Marmor tabaci var. canadense H. (tobacco-mosaic virus, single-virus streak strain)
Severe-mottle streak virus Selman 1941
Mild-mottle streak virus Selman 1941
Tomato streak virus, yellow and green strains K.M. Smith 1935
Tomato streak virus 1, Ontario strain Berkeley 1936

TOBACCO NECROSIS Holmes Hb.86; Smith Tb.265
[Includes a number of serologically unrelated viruses, see Bawden, Brit.J.exp.Path,xxii,59-70, 1941]

Tobacco necrosis virus Smith & Bald 1935; Price 1938
Nicotiana virus 11 K.M.S.
Marmor lethale H.

TOBACCO RING SPOT Holmes Hb.98; Smith Tb.269

Tobacco ring spot virus Fromme et al. 1927
Tobacco hieroglyphics [virus] 1923
Tobacco ringspot No.1 virus Price 1937
Tobacco virus 10 J.Johnson in K.M.S.
Nicotiana virus 12 K.M.S. Also on Petunia
Annulus tabaci var. virginiensis H. (tobacco-ringspot virus, typical strain)

Strains or related viruses

Bergerac ringspot virus Smith 1935
Nicotiana virus 14 K.M.S.
Annulus bergerac H.

Green ringspot virus Valleau 1932, Price 1936
Nicotiana virus 12B K.M.S.
Annulus tabaci var. kentuckiensis H. (tobacco ringspot virus, green-ringspot strain)

Tobacco net mosaic = Solanum virus 2 or
Cucumis " 1

Tobak-Ringflecken-Virus [illegible]

Tobacco rosette disease virus.

Tobacco ringspot No. 2 virus Price 1936
Nicotiana virus 13 K.M.S.
Annulus zonatus H. (tomato-ringspot virus)

Yellow ringspot virus Valleau 1932, Price 1936
Nicotiana virus 12A K.M.S.
Annulus tabaci var. auratus H. (tobacco ringspot virus, yellow-ringspot strain)

TOBACCO STREAK Holmes Hb.103; Smith Tb.259

Tobacco streak virus J.Johnson 1936
?Tobacco vein-streak virus Jochems 1933
Tobacco viruses B5 and B6 Thung 1933
Tobacco virus 18 J.Johnson in K.M.S.
Nicotiana virus 8 K.M.S.
Annulus orae H. (tobacco streak-disease virus)
Tractus orae (H.) Valleau 1940

Strain or related virus

Tobacco Streifen- and Kräuselkrankheit virus Böning 1928
Tobacco virus 11 J.Johnson in K.M.S.
Nicotiana virus 5 K.M.S. on Solanaceae, Convolvulus arvensis
Tobacco stripe + curl

TOBACCO YELLOW DWARF Hill, J.Coun.sci.industr.Res.Aust., x, 228-230,1937; ibid., 1941, 1942

Tobacco yellow dwarf virus Hill 1937

TOMATO AUCUBA MOSAIC

Tomato aucuba mosaic virus, see under Tobacco mosaic virus

TOMATO BIG BUD Holmes Hb.107; Smith Tb.322

Tomato big bud virus Samuel et al. 1933
Tomato rosette virus [Cobb 1902] Samuel et al. 1933
Tomato blue top virus Samuel et al. 1933
Tomato bunchy top virus Samuel et al. 1933
Tomato fruit woodiness virus Ryjkoff et al. 1933 fide Ryjkoff 1934
Virescence virus Ryjkoff 1934, Hill 1943
Tomato stolbur virus Michailowa 1935
Tobacco big bud virus Hill 1937
Tomato virus 3 J.Johnson in K.M.S. on Solanaceae + Convolvulus arvensis
Lycopersicum virus 5 K.M.S.
Galla australiensis H.

TOMATO BUNCHY TOP Smith Tb.322

Tomato bunchy top virus McClean 1931, 1935
Tomato virus 2 J.Johnson in K.M.S.
Lycopersicum virus 6 K.M.S.

TOMATO BUSHY STUNT Holmes Hb.30; Smith Tb.315

Tomato bushy stunt virus Ainsworth 1936
Lycopersicum virus 4 K.M.S.
Marmor dodecahedron H.

TOMATO ENATION MOSAIC

Tomato enation mosaic virus, see under Tobacco mosaic virus

TOMATO SPOTTED WILT Holmes Hb.136; Smith Tb.296

Tomato spotted wilt virus Samuel et al. 1930
'T.S.W.' virus (Pethybridge in) Ainsworth et al. 1934
Tomato virus Azevedo 1936 fide Costa & Forster 1941
Tomato virus 1 J.Johnson in Smith 1937
Lycopersicum virus 3 K.M.S.
Lethum australiense var. typicum H. (tomato spotted-wilt virus, typical strain)
Pineapple yellow spot virus Illingworth 1931, Linford 1932, fide Sakimura 1940
Pineapple side rot [virus] Sideris 1927
Ananas virus 1 K.M.S.

Strains or related viruses

Kromnek virus Moore 1933
Tobacco wilt [virus] Lounsbury 1906
Kat River disease or wilt virus Moore 1933

Tobacco corcova virus [Fawcett 1921], Soriano 1931, Fawcett 1940
Tomato corcova virus Fawcett 1933, 1940
Tomato black post virus Fawcett 1940
?Potato vira-cabeça virus Costa & Kiehl 1938, Fawcett 1940

Tomato ring-spot virus Samson & Imle 1942

Tomato tip-blight virus
Oregon tip-blight of tomato virus McWhorter & Milbrath 1935, 1938

Tomato die-back streak virus Shapovalov 1934
Lethum australiense var. lethale H. (tomato spotted-wilt virus, tip-blight strain)

TOMATO STREAK

Tomato streak virus, see under Tobacco mosaic virus

TOMATO STREAK, MIXED-VIRUS

Tobacco mosaic virus + Potato mottle virus

TULIP BREAK

Several viruses are associated with tulip break including:

Tulip colour-adding virus McWhorter 1932, Holmes Hb.52
Marmor tulipae H.
Tulip mosaic virus McKay & Warner 1926 (in part)
Tulipa virus 1 K.M.S. (in part) fide H.
Tulip virus II McWhorter 1938
Tulip self-break virus McKenney Hughes 1937

Lily latent-mosaic virus McWhorter 1937, Holmes, Hb.53
Marmor mite H.
Tulip colour-removing virus McWhorter 1932
Tulip virus I McWhorter 1937
Tulipa virus 1 K.M.S. (in part) fide H.

Hyacinth stripe virus Atanasoff 1928

Lily latent virus McWhorter 1937, Brierley 1941

Lily strong mottle virus Brierley 1939

Tulip break virus Cayley 1928

Tulip full-break virus McKenney Hughes 1937

TURNIP MOSAIC Holmes Hb.70; Smith Tb.12

Turnip mosaic virus Gardner & Kendrick 1921, Schultz 1921, Chamberlain 1936, Tompkins 1938
Mustard mosaic virus Schultz 1921
Chinese cabbage mosaic virus Schultz 1921 fide H.
Crucifer mosaic virus Hoggan & J.Johnson 1935
Turnip virus 1 Hoggan & J.Johnson in K.M.S.

Brassica virus 2 K.M.S.
Marmor brassicae H.
?Crucifer mosaic virus Clayton 1930
Brassica virus 4 K.M.S.

VINE MOSAIC Holmes Hb.83; Smith Tb.202

Vine mosaic virus Stranak 1931
Vitis virus 1 K.M.S.
Marmor viticola H.

WHEAT MOSAIC Holmes Hb.61; Smith Tb.448

Wheat mosaic virus McKinney 1925
Wheat rosette virus McKinney 1923
Wheat virus 1 McKinney 1937
Wheat green mosaic (or mosaic rosette) virus McKinney 1937
Triticum virus 1 K.M.S.
Marmor tritici H.

Strains or related viruses

Wheat virus 2 (green mosaic) McKinney 1937

Wheat virus 3 McKinney 1937
Wheat yellow mosaic virus McKinney 1931, 1937
Triticum virus 1A K.M.S.

Wheat virus 4 (light green mosaic) McKinney 1937
Wheat green mosaic virus Wada & Fukano 1937

Wheat virus 5 (yellow mosaic) McKinney 1937

Wheat virus 6 (mild streak mosaic) McKinney 1937

Wheat virus 7 (yellow streak mosaic) McKinney 1937

APPENDIX

The following list includes a few of the many incompletely described viruses and virus diseases for which common disease names are perhaps necessary. Opinions on the status of these viruses or diseases would be welcomed.

Apricot ring spot Bodine & Kreutzer 1942

Bean mosaic virus 3 Zaumeyer & Wade 1934
Phaseolus virus 3 K.M.S.

Bean mosaic virus 4 Zaumeyer & Harter 1942

Broad bean mild mosaic Yu 1939

Bromus inermis mosaic virus McKinney, Fellows, & Johnston 1942

Cassava stem lesion disease Storey 1936
Manihot virus 2 K.M.S.

Celery calico, celery crinkle-leaf, celery yellow spot Severin & Freitag 1935
Apium virus 2 K.M.S.

Cherry rasp leaf Bodine & Newton 1942

Citrus convex gum disease Kung-Hsiang 1943

Currant mosaic Hildebrand 1939

Dahlia streak A.H. Campbell 1934

Datura virus 1 K.M.S.

Datura mosaic, see R.A.M., xxi, 342; xxii, 381

Freesia mosaic
Freesia virus 1 K.M.S.

Horse-radish mosaic Dana & McWhorter 1932

Horse-radish curly top (= brittle root) Kadow & Anderson 1940

Nicotiana virus 15 K.M.S.

= Pseudinsetta

— Oat 'zakuklivanie' (pupation disease) virus [Donchenko 1929, Sukhov & Vovk 1937] Sukhov & Sukova 1940

Peach golden net Bodine, Newton, & Kreutzer 1942

Plum diamond canker R.E. Smith 1941

Plum (Lombard) latent mosaic virus Hildebrand 1942

Plum (Shiro) line-pattern mosaic virus Berkeley 1941

Plum pox Atanasoff 1932

Potato 'Bigarrure' Verplancke 1934

Strawberry leaf roll Berkeley & Plakidas 1942

Vine court-noué Petri 1929

— Winter wheat mosaic virus Zazhurilo & Sitnikova 1939